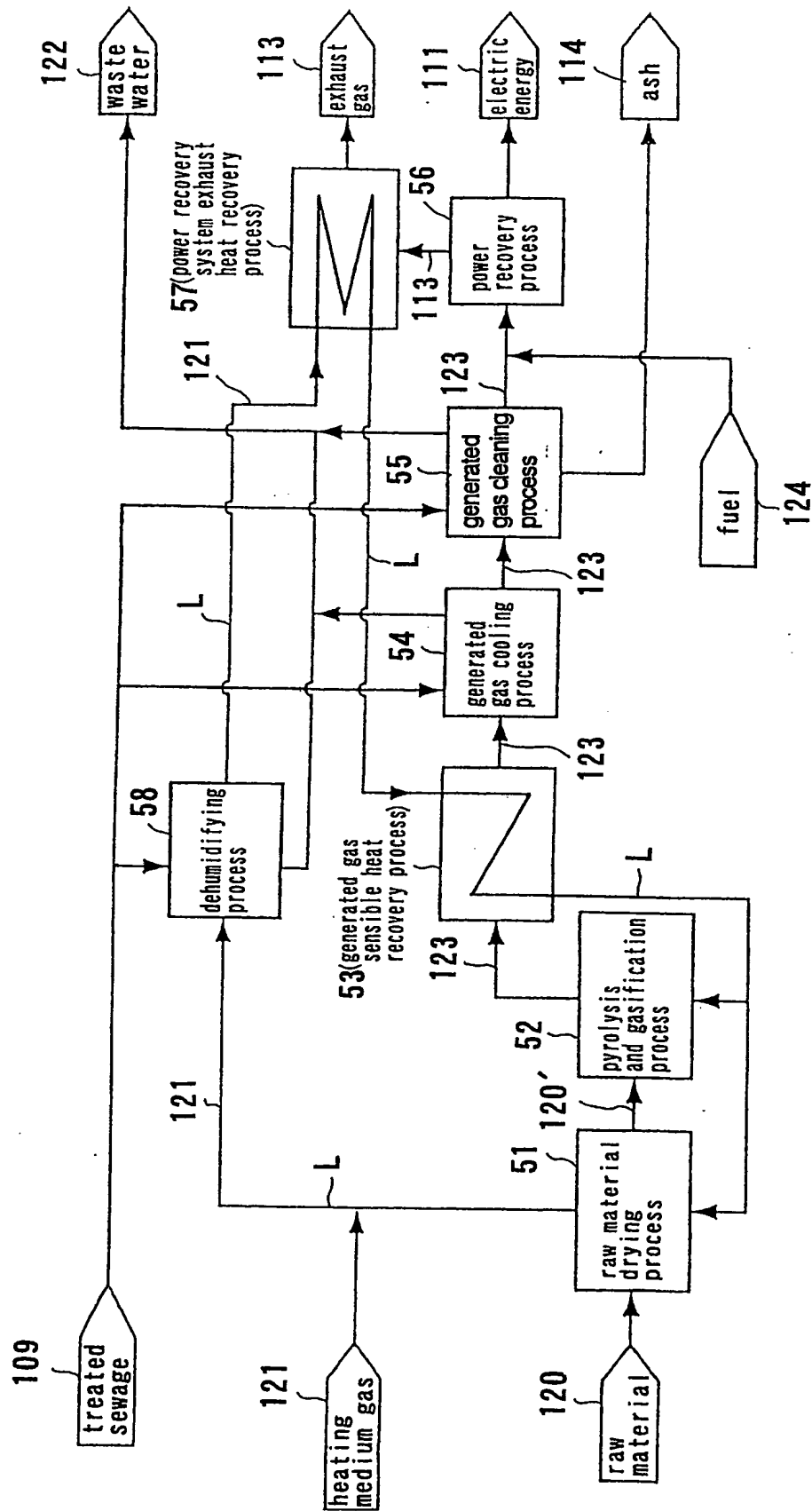
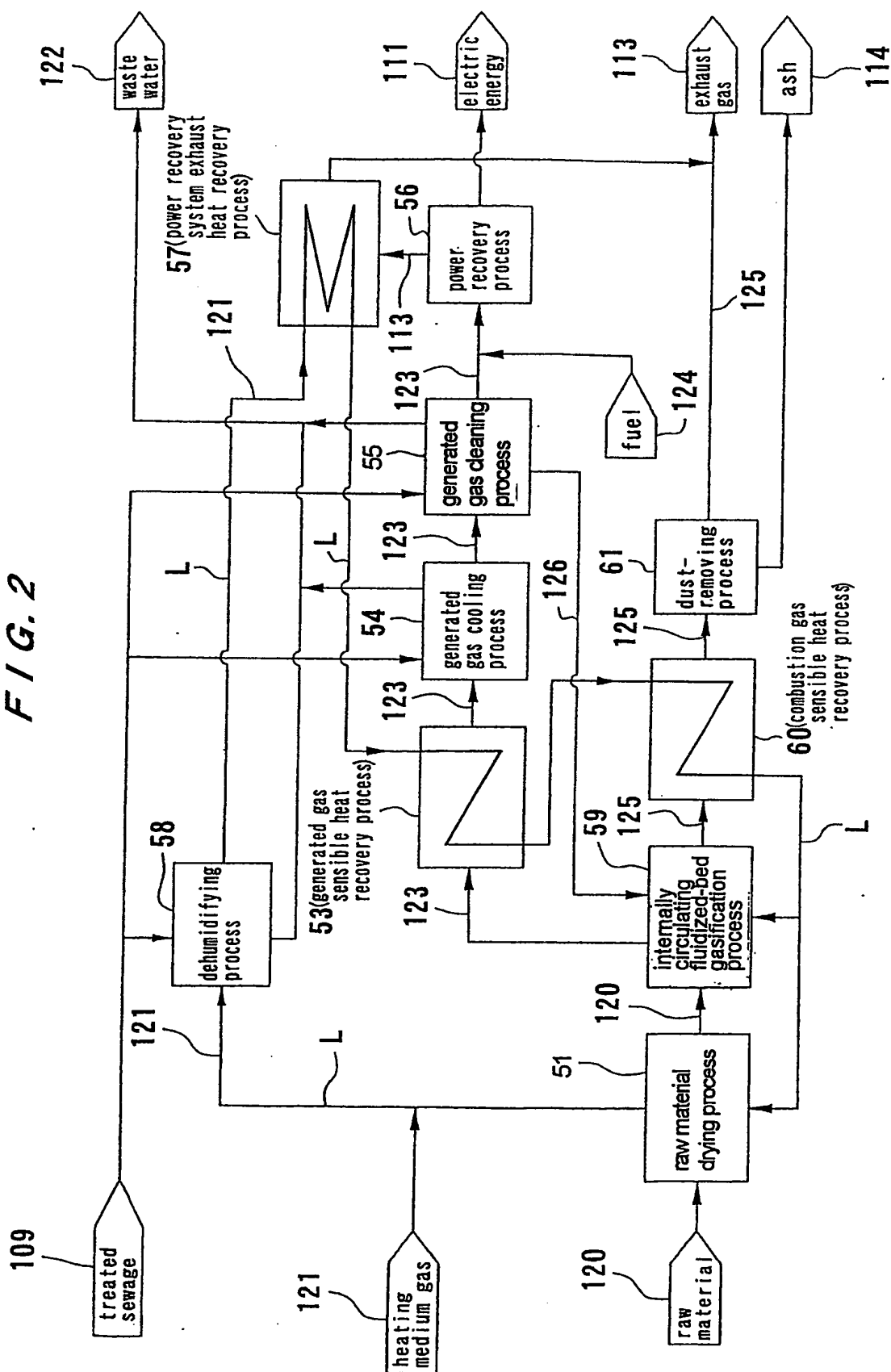


FIG. 1



F / G. 2



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FIG. 3A

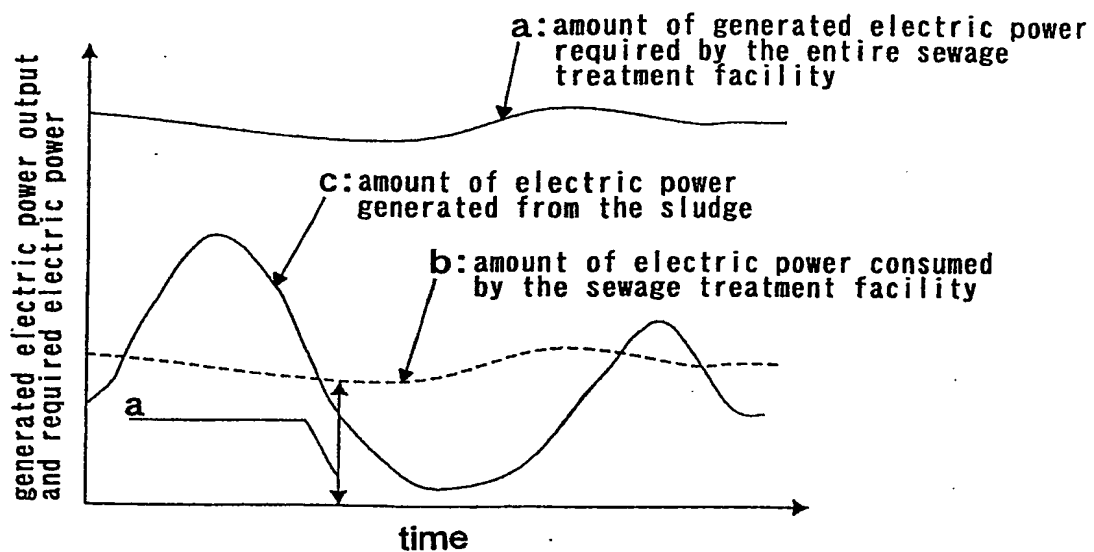


FIG. 3B

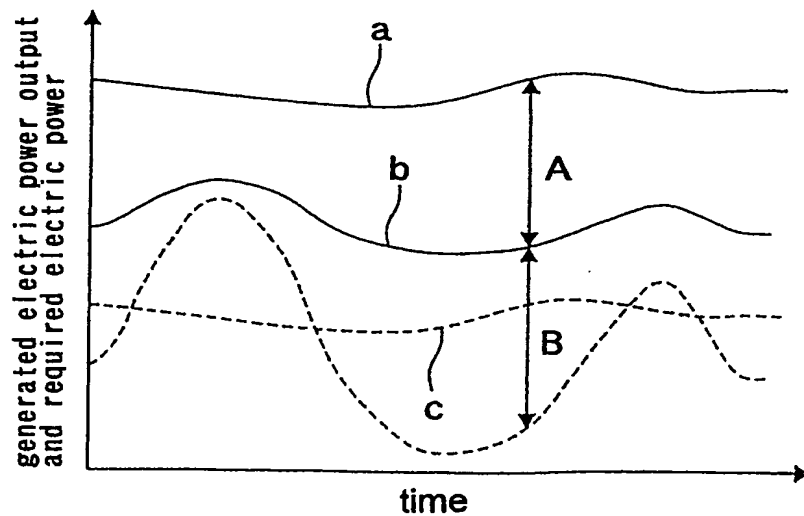
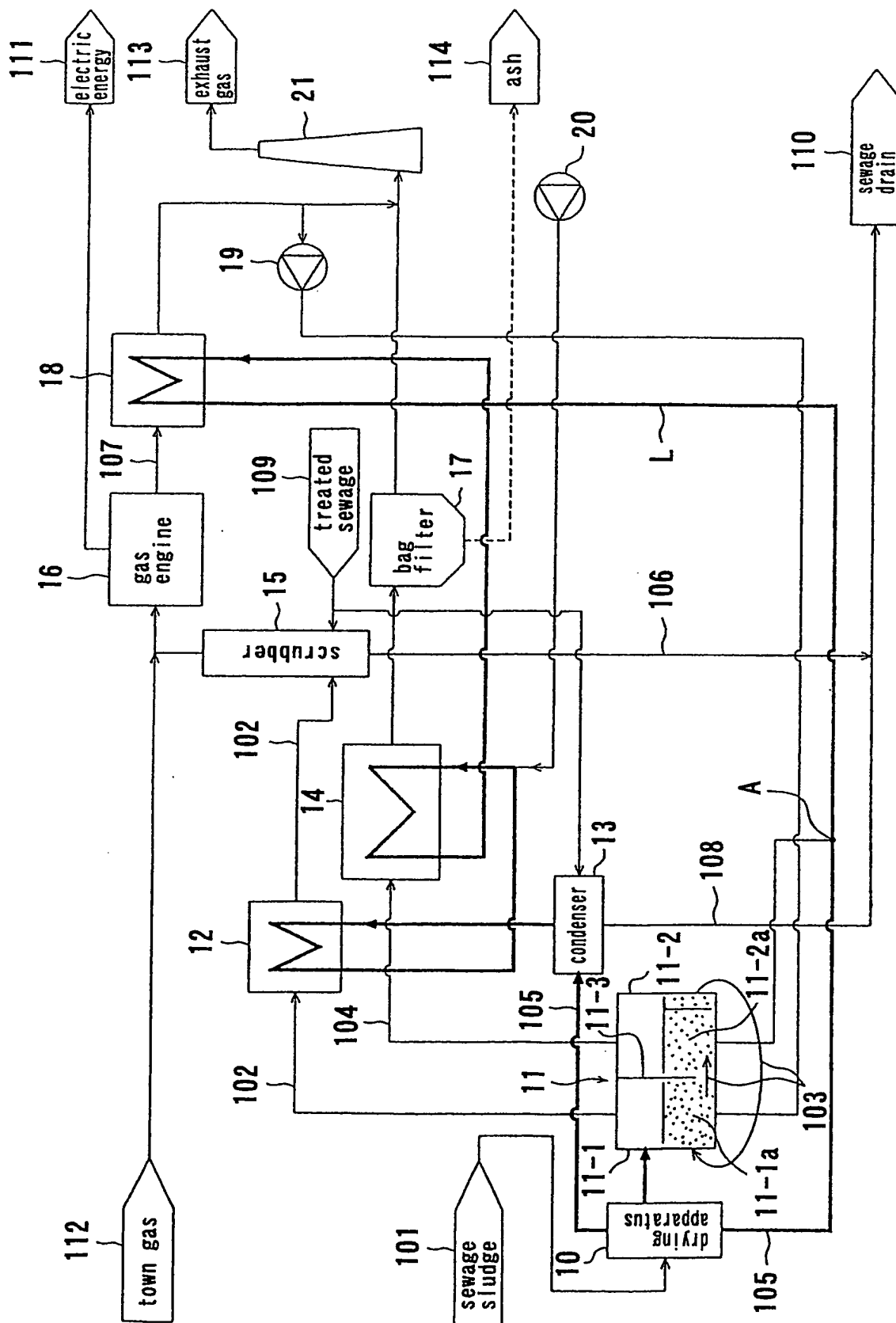


FIG. 4



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FIG. 5

| | | |
|---|---------|--------|
| water | %-wb | 77.0% |
| carbon | %-wb | 9.8% |
| hydrogen | %-wb | 1.4% |
| oxygen | %-wb | 5.6% |
| nitrogen | %-wb | 1.2% |
| sulfur | %-wb | 0.2% |
| ash | %-wb | 4.8% |
| higher calorific value | MJ/kg | 4.37 |
| | kcal/kg | 1043.0 |
| lower calorific value | MJ/kg | 2.12 |
| | kcal/kg | 505.4 |
| lower calorific value (exclusive of a value of combusted hydrogen) | MJ/kg | 2.43 |
| | kcal/kg | 581.0 |

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FIG. 6

| treatment amount of sewage sludge | t/d | 300 | | | | | | |
|---|---------|-------|-------|-------|-------|-------|-------|-------|
| water contents of dried sewage sludge | % | 15% | 20% | 25% | 30% | 35% | 40% | 45% |
| higher calorific value | MJ/kg | 16.1 | 15.2 | 14.2 | 13.3 | 12.3 | 11.4 | 10.4 |
| the same as above | kcal/kg | 3,855 | 3,628 | 3,401 | 3,174 | 2,948 | 2,721 | 2,494 |
| lower calorific value | MJ/kg | 14.6 | 13.6 | 12.6 | 11.6 | 10.6 | 9.6 | 8.6 |
| the same as above | kcal/kg | 3,485 | 3,245 | 3,005 | 2,764 | 2,524 | 2,284 | 2,043 |
| gas engine electric power generation efficiency | % | 35% | 35% | 35% | 35% | 35% | 35% | 35% |
| gasification furnace raw material heat input (higher calorific value) | MW | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 | 15.2 |
| cold gas efficiency | % | 64% | 61% | 58% | 55% | 50% | 45% | 39% |
| generating-end output | MW | 3.40 | 3.26 | 3.10 | 2.91 | 2.68 | 2.40 | 2.06 |
| required gas engine heat radiation recovery ratio | MW | 61% | 56% | 50% | 42% | 32% | 16% | -8% |

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FIG. 8

